Ohio 1888.

8060

doc. 71

[Charles Schuchert
Peabody Mus.
Yale Univ.]

8060

doc. 71

(on June 5th, 1888) with Ulrich

8060

Left Cincinnati [illegible] 7:35 A.M.
reaching there 9:23. Proceeded
at once to Soldiers Home. On
the railroad track near the
home the Richmond beds are
cut through. Fossils collected are
R. dentata (com) R. capax (rare) S.
sulcatum, S. [illegible], Strepte[illegible] a
Protarea [illegible], St. multituberculata
M. quadrata, [illegible] a [illegible]
[illegible], Arthroclema [illegible]! These
'beds' are [illegible] [illegible] and [illegible]
blue [illegible] yellowish.
Above the [illegible] which
is about 10' thick, there is a [illegible]
bed of [illegible] 18" to 20" thick
with a central parting. This bed
is — feet below the Clinton.
In the afternoon collected [illegible] the
[illegible] quarries. These quarries are
[illegible] [illegible]! Above

19-20 [illegible]

Found [illegible] our entire [illegible] crinoids of [illegible], these latter are quite abundant. [illegible] the [illegible] of the [illegible] the Clinton [illegible]. Brachiopods were quite abundant in Clinton layers. [illegible] a [illegible].

Took [illegible] the [illegible] theatre.

June 6.

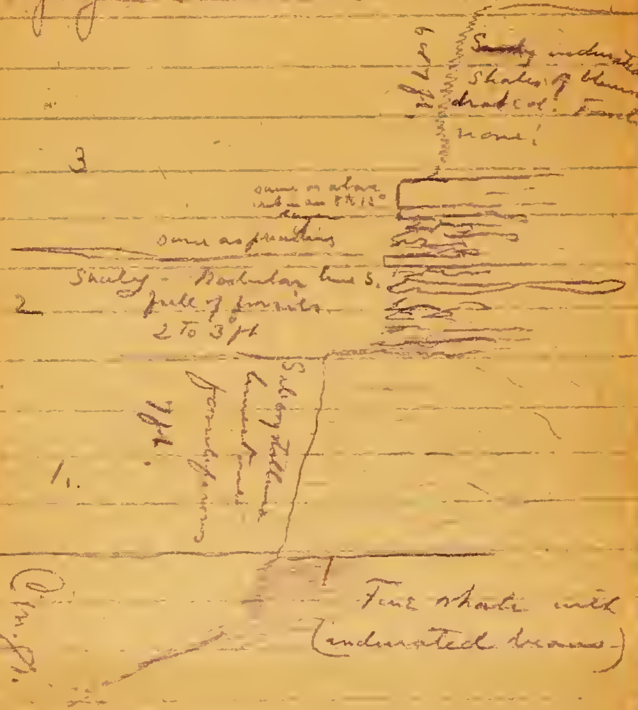
Spent the forenoon at stolze [illegible] very [illegible] little [illegible] one good crinoid. Then [illegible] to Swartzburgh quarry and found this to be very good ground to gather fossils. [illegible] shale [illegible] been thrown [illegible] has weathered out nicely. Got [illegible] good crinoids and [illegible] bottom [illegible]

[illegible]

[illegible] this [illegible]

Schwartzbach quarry
bridging of Erbe

This sketch is by Ulrich



Sol[illegible] from [illegible] northern
One.

Shale

[illegible] made of [illegible]

hard shale layer in Erbe's quarry.

[illegible] [illegible] harder

[illegible] 14 and 7[illegible] [illegible]

Shale [illegible] [illegible]

shaly nodular limestone

[illegible] nodded with

Trilobite shell & Stropho[illegible]

Heavy bedded same as [illegible] of Erbe quarry.

1[a]

Cin. G.

third. Trilobites [illegible] quite abundant
found two very large and good specimens
Bryozoa whole very abundant and
in good preservation.

Packed a box of the same and shipped
it there by express. missed the noon
train and then compelled to [illegible]
[illegible] to get the
5:10 train for Columbus, reaching
there at [illegible]. [illegible] Mr. [illegible]
[illegible]
[illegible] about [illegible] Min [illegible]

[illegible]

Spent all day at [illegible]
[illegible]. [illegible]
[illegible] the 5 a.m. [illegible] the Col.
[illegible]
[illegible]
in 3 m. [illegible] before breakfast.
Fossils [illegible] abundant but [illegible]

From the Dublin quarries we have a sample of the [illegible] limestone and a very characteristic piece of the S. organum [illegible].

[illegible] Late in the
after[illegible] [illegible] and
[illegible] fossils [illegible] check-
listed [illegible] 3.20. [illegible]

June 8
Saturday. Today was spent at
State quarries. Found quite a lot of
[illegible] 6 Codaster and about
[illegible] Crinus [illegible]
[illegible]
[illegible] consisted mainly of
[illegible] Nodules/O.f of
and [illegible]
[illegible] are these [illegible]
[illegible]
horizon. The [illegible] is 15 ft below
[illegible]
stone. [illegible] whole [illegible] has
been taken.

June 4.

Called at [illegible] in the morning [illegible] [illegible] [illegible] [illegible] [illegible] containing all the [illegible] [illegible] [illegible] of Clinton national bank [illegible].

Took [illegible] Cleveland [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] at the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

June [illegible]

Collected [illegible] on Rocky [illegible]. This [illegible] thought [illegible] [illegible] eight [illegible] [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] [illegible] their [illegible].

In the upper [illegible] the [illegible] there are certain large [illegible] great number [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] other [illegible] [illegible].

[illegible]

[illegible] all almost [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] but [illegible]

th[illegible] the g[illegible] th[illegible] of[illegible]
[illegible]
[illegible] the [illegible] of
of Tamillinault.
[illegible]
[illegible]
They [illegible]
[illegible]
of [illegible]
the [illegible]
[illegible] till then.
[illegible]
[illegible]
but [illegible]
[illegible]
[illegible]

June 11
C[illegible]
cold, [illegible] C[illegible] Store
[illegible]

Collected many Lizards and
[illegible] in the morning and then
[illegible] the box [illegible] it.
Balance of day spent in botany
w. [illegible].
Reach Cleveland 6.50 p.m.

June 12
Dr. [illegible] with [illegible] [illegible] —
collected at Bedford, 12 miles
east on Pittsburgh R.R. The ex-
posures here and along Tinkers Creek
and show the [illegible] Cleveland
and [illegible]. The [illegible] is about
50 or 90 feet [illegible] and of the same
color as the [illegible] on Rocky river
near [illegible] of the [illegible] of Bed-
ford, just at the junction with the [illegible]
[illegible] at the [illegible]
[illegible] [illegible] [illegible] [illegible]

in the upper shale or just at the junction of the black [illegible] shale.

The Cleveland shales are here of a very [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] and [illegible] [illegible] [illegible] 20 [illegible] [illegible] found no fossils [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] from them [illegible] [illegible] pyrites, common and [illegible]

Then come the [illegible] [illegible] [illegible] thick [illegible] [illegible] [illegible] of impure limestone holding a fine [illegible] of Devonian [illegible] [illegible] [illegible] [illegible] gather [illegible] [illegible] [illegible] [illegible] [illegible] into my [illegible] [illegible] [illegible] base and [illegible] [illegible] [illegible] [illegible] from the [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] and got some [illegible] specimens.

June 13 Wednesday

Tried all day to get some fish worms in a creek six miles west of Flatland but it was a total failure. The first day of work with i yielded nothing.

Ed & Denna went to town to get specimens for the Exposition and shipped a box weighing 105 lbs.

June 14

Started out on the valley R.R to get a train for Richfield but missed it and had to lay over until 12 o'clock. Missed getting the one after but finally caught the third one.

At Peninsula we could not get out until 6^20. Saw some shale

on ~~the~~ western side of track which proved to be Erie shales. The specimens from this locality are in the bottom of box containing the Richfield fossils sent from this place. Left to Richfield at 8:0

June 15
Collected in the small run just north of the cemetery in tributary of Furnace Run. I was not long in finding the Crinoid horizon. Left about fifty good to fair specimens in the wash out. After diging a hole about 5 ft square over bare surface I failed to find a single good specimen. The upper heavily is a blue shale horizon interlaminated with beds of lime stone some weathering which had very

soft that had an cast i great
many [illegible].

June 16
Finished [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] (Furnace) [illegible] into [illegible]
water. We passed over a small
[illegible] [illegible] [illegible] not [illegible]
over Furnace run [illegible] kept along
the road and [illegible] [illegible] two [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
Fossils [illegible] [illegible] in the stream
Reached [illegible] at 8 o'clock
P. M.

June 17

Returned to Cin. after having been at Cleveland. Left at 11 A.M. reaching Cin at 8 15 P.M.

June 18

Started out at 6 20 for Blanchester and by 2 o'clock had a box filled [illegible] my Lab and shale equivalent to those at Mc [illegible]. The boys tell me the blue clay is not full of trilobites. At 2 30 I left out for Hillsboro. Got the balance of [illegible] I could in good shale. These beds liberate but few fossils all imbedded in the rock. Reached Hillsboro about 7 o'clock

June 19

Started out just for the small ravine that Mr. Sayler mentioned. Found it the Niobrara shale at bottom, blue, then running into yellow shale and then yellow impure sandstone, holding a layer of blue [illegible] limestone [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] fossils [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] all in the [illegible] and poorly preserved.

[illegible] [illegible] [illegible] Sayler [illegible] [illegible] locality would [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fossils [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the [illegible]

ing. Then crossed over to the north in a small quarry and there found the steep side Cliff a dark blue sandy limestone. In layers of many 8 in layers and one 2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
There are [illegible] by [illegible] Sand rock [illegible] some chert all [illegible] [illegible]
[illegible] Tallized. ~~[illegible]~~ Mr Sayer calls it the [illegible] bed.
Above this [illegible] the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] holding [illegible] the [illegible] [illegible] [illegible]

June 20

Looked up the [illegible] abandoned R.R. cut north of the Town [illegible] for [illegible] coral [illegible] done [illegible] [illegible] Tilla

Then went up [illegible] valley [illegible] and got a [illegible] Hillsboro sandstone.

Passed the [illegible] in the afternoon. [illegible] stakes are all [illegible] together [illegible] on the [illegible] of [illegible] [illegible] with [illegible]

Left [illegible] P.M.

Reached Greenfield about 7.

[illegible]

June 2[illegible] Greenfield

Started out at 7:30 for Rucker's quarry over in Ross Co. along Paint creek.

The quarry shows a face of limestone of 53 ft covered by 19 ft of soil. The top layers of limestone are all striated in a N.W. & S.E. direction.

The bottom layers of the quarry are very regular and admit of being easily worked. They make blocks used for street work. The yellow layers [illegible] land bands of [illegible] in [illegible] of 3 in. up to 2 ft. One layer [illegible] together [illegible] and holds a [illegible]. Near the top occurs [illegible] very irregular concretions [illegible] almost made up of small concentrically [illegible] nodules. The [illegible]

lime.

At the southern end of the quarry they encountered an extremely large nodule measuring at least 15 feet through. There is another one still uncovered of about the same dimensions. The strata all around the nodules seem to curl over them making a complete dome shaped mass. They include in itself [illegible] much harder than anything surrounding it and seem to be made of the [illegible] marl of the limestone which runs in all directions interspersed with large coarse amygdaloidal crystals. Also [illegible] are [illegible] strong and [illegible]. [illegible] nodule matter [illegible] lime would be [illegible] for the clay or dirt of which and the crystals which will not burn.

At another quarry a little north of the same place they are in the ... in the ... which are very regular in about 12 in courses and ... little ... up so that they ... over the ... very well.
Packed a box and shipped it ...
I left the ...

June 22
I looked up two ... in company with E.O.V. & Mr. ... but found very little in the line of fossils in fact but one slab with Chonetes!

of ii xxi. n. II Bull. de la Soc. Géol
de France, with a figure of the beak of a
a Terebratula. I have, however,
seen numerous specimens with the septa
entire and the [illegible] foramen, as in the
other [illegible] specimens.
(Bell makes his S. cuneatica
[illegible] A. tumida).
[illegible] eleven [illegible]
[illegible]
[illegible]
[illegible]
in 1856 abandoned Athyris as
defined [illegible] A. tumida [illegible]
[illegible]
[illegible]

June 23
Left on an early morning train for Sciotoville and found considerable fossils mainly brachiopods [illegible] the upper [illegible] [illegible] Obr[illegible] [illegible] for [illegible] [illegible] Rock. Reaching here [illegible] the [illegible] and [illegible] [illegible] and [illegible] [illegible].

June 24
[illegible] do [illegible] [illegible] [illegible] [illegible] [illegible] over the [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] the afternoon [illegible] [illegible] [illegible] of the [illegible] and [illegible] [illegible] [illegible] which were quite abundant. Left for Pomeroy on a steamer.

are wanting in the other nym[illegible] page 128

On page 146 [illegible] be the

"Amazilia" [illegible]

"Sp. Char. — [illegible] orbicular, small; no cardinal [illegible] [illegible] [illegible] appendage [illegible] large, [illegible] the greater part [illegible]

"This very interesting [illegible] all the [illegible] characters [illegible] [illegible] united [illegible] [illegible] elements in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] whose [illegible] had [illegible] the [illegible]: [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] to distinguish it from Trichotelea; [illegible] [illegible] [illegible] however, a [illegible] [illegible].

The above is all he wrote [illegible] at the time.

[illegible] [illegible] [illegible] [illegible]

he said "[illegible] [illegible] uncommon

June 25

Boat could not get to Pomeroy and left us at Point Pleasant. Got a train about nine and stayed over at [illegible]. In the afternoon [illegible] Collected some [illegible] and [illegible] went to the [illegible] Left for Pomeroy about nine p.m.

June 26

[illegible] spent [illegible] the C & C [illegible] collecting for [illegible] Ed looked [illegible] Left for [illegible] Slept at Huntington.

[illegible]

must be retained in that group and cannot now be transferred to the other section of which it is made in the type. This arrangement, according to our view, can only be a valid one except [illegible] be [illegible] specially [illegible] the [illegible] or others having the [illegible] in the [illegible] list, or [illegible] one to [illegible] a type, or [illegible] dis[illegible] in such a manner as to exclude A. tum[illegible].

Mr. Cy[illegible] made the [illegible] in the [illegible] of the Cent[illegible] Indiana 1897. [illegible] He [illegible] after [illegible] 1. of the [illegible] 2. [illegible] 3. [illegible] in which there [illegible] stamen, [illegible] genus [illegible] [illegible] the [illegible] [illegible] in the large [illegible]

June 27. Reached Hanging Rock about 10 o'clock. Boat came along between 4 [illegible] and left for Cin. O

Section of well at Hillsboro

Drift	6'
Niagara	50'
Niagara shale	65'
Dayton Stone	5'
Clinton	50'
Blue shales	10'
Red shales	20'
Blue Limestone	450'
Blue shales & limest	368
Gray Limestone	20'
Brown shales [illegible] shales	166'
Galena Trenton	40
Blue shales	5
Trenton	

The well was sunk to the depth of 1700 at about 1680 they struck Blue lick [illegible] the first [illegible] salt water.

~~T. tumida, Dalman, and T. hecuba Barrande. In that year Mr. Davidson divided it into two smaller groups, confirming the name Atrypa to that section for which it was most appropriate, viz. A. tumida or hecuba for the type, and [illegible] Spirifera, [illegible] to the other, type T. crenistria. It was [illegible] that [illegible], as then redefined, included [illegible], and in consequence it has been again [illegible] in separation all [illegible] [illegible] T. hecuba [illegible] made a [illegible], a [illegible] but not clearly [illegible] [illegible] [illegible] 1857. [illegible] restriction [illegible] [illegible] are [illegible] that, as all the species [illegible] placed in the [illegible] at the time [illegible] described [illegible] being [illegible] T. crenistria, the name [illegible]~~

[illegible] to C.D.W. Ef. and I cannot [illegible] [illegible] 9 x 7 x 5 inches [illegible] [illegible] [illegible] Clinton [illegible]